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Use of peak Doppler gradient across ventricular septal defects leads to underestimation of right-sided pressures in patients with "sloped" Doppler signals (Schamberger et al). 2001;14:1197-202

Echocardiography, fetal
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Echocardiography, intracardiac
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Intracardiac echocardiography identifies pericardial fluid and can monitor the success of pericardiocentesis: experimental studies (Clark et al). 2001;14:712-4

Echocardiography, intraoperative
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Dilation of the coronary sinus on echocardiogram: prevalence and significance in patients with chronic pulmonary hypertension (Mahmud et al). 2001;14:44-9
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Analysis of systolic and diastolic time intervals during dobutamine-atropine stress echocardiography: diagnostic potential of the Doppler myocardial performance index (Ling et al). 2001;14:978-86
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Prediction of cardiac mortality after myocardial infarction: the role of maximal treadmill stress echocardiography (Vasey et al). 2001;14:38-43
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Echocardiography, three-dimensional
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Anatomic validation of a novel method for left ventricular volume and mass measurements with use of real-time 3-dimensional echocardiography (Schmidt et al). 2001;14:1-10
Assessment of left ventricular function by real-time 3-dimensional echocardiography compared with conventional noninvasive methods (Takuma et al). 2001;14:275-84
Cor triatriatum dexter: transesophageal echocardiographic diagnosis and 3-dimensional reconstruction (Roldán et al). 2001;14:634-6 (Case rep.)
Evaluation of septal hypertrophy and systolic function in diseases that cause left ventricular hypertrophy: a 3-dimensional echocardiography study (Frielingsdorf et al). 2001;14:370-7
Measurement of left ventricular volumes by 3-dimensional echocardiography with tissue harmonic imaging: a comparison with magnetic resonance imaging (Kim et al). 2001;14:169-79
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Echocardiography, transesophageal

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Assessment of left atrial appendage filling pattern by using intravenous administration of microbubbles: comparison between mitral stenosis and mitral regurgitation (Ha et al). 2001;14:1100-6
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Two- and three-dimensional transesophageal echocardiographic diagnosis of intramyocardial dissecting hematoma after myocardial infarction (Vargas-Barrón et al). 2001;14:637-40 (Case rep.)
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Echocardiography, transthoracic

Abnormal implantation of permanent pacemaker lead in the left ventricle via a patent foramen ovale: clinical and echocardiographic recognition of a rare complication (Ananthasubramaniam et al). 2001;14:231-3 (Case rep.)
Assessment of left atrial appendage filling pattern by using intravenous administration of microbubbles: comparison between mitral stenosis and mitral regurgitation (Ha et al). 2001;14:1100-6
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Disturbed atrioventricular electromechanical function long after Mustard operation for transposition of great arteries: a potential contributing factor to atrial flutter (Li et al). 2001;14:1088-93
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Right ventricular dysplasia in an asymptomatic young man: an uncommon case with biventricular involvement and no known family history (Patel et al). 2001;14:317-20 (Case rep.)

Echocardiography, two-dimensional

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Benign lipid envelope of the heart simulating a pericardial hematoma (Kuvin et al). 2001;14:234-6 (Case rep.)

Dilation of the coronary sinus on echocardiogram: prevalence and significance in patients with chronic pulmonary hypertension (Mahmud et al). 2001;14:44-9

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Use of high-frame rate imaging and Doppler tissue echocardiography in the diagnosis of fetal ventricular tachycardia (Rein et al). 2001;14:149-51 (Case rep.)

Echocardiography, utilization

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An assessment of tissue harmonic versus fundamental imaging modes for echocardiographic measurements (Graham et al). 2001;14:1191-6

Concept, development, administration, and analysis of a certifying examination in echocardiography for physicians (Weyman et al). 2001;14:158-68 (Special rep.)

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Licensure of the cardiac sonographer: an overview of issues and activities (Rosenbloom et al). 2001;14:1212-9

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Guidelines for cardiac sonographer education: recommendations of the American Society of Echocardiography Sonographer Training and Education Committee (Ehler et al). 2001;14:77-84 (Position paper)

Eisenmenger's syndrome

The value of contrast echocardiography in the diagnosis of patent ductus arteriosus with Eisenmenger's syndrome (Sohn et al). 2001;14:57-9 (Brief comm.)

Ejection fraction

Assessment of left ventricular function by real-time 3-dimensional echocardiography compared with conventional noninvasive methods (Takuma et al). 2001;14:275-84

Contrast enhanced quantitation of left ventricular ejection fraction: what is the best method? (Dias et al). 2001;14:1183-90

Detection of early abnormalities of left ventricular function by hemodynamic, echo-tissue Doppler imaging, and mitral Doppler flow techniques in patients with coronary artery disease and normal ejection fraction (Bolognesi et al). 2001;14:764-72

The validation of volumetric real-time 3-dimensional echocardiography for the determination of left ventricular function (Mondelli et al). 2001;14:994-1000

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Electric countershock

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Embolism
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Embolization, therapeutic
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Hydatid cyst of the heart as a rare cause of embolization: report of 5 cases and review of published reports (Özer et al). 2001;14:299-302 (Case rep.)

Endocardial fibroelastoma
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Diagnosis of esophageal carcinoma because of findings on transesophageal echocardiography (Shah et al). 2001;14:1134-6 (Case rep.)

Esophageal perforation
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Eustachian valve; *see* Vena cava, inferior
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Exercise test
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Cardiorespiratory exercise capacity and its relation to a new Doppler index in children previously treated with anthracycline (Sato et al). 2001;14:256-63
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Fenestration
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Fetal echocardiography; *see* Echocardiography, fetal

Fibrinogen
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Echocardiographic detection and long-term outcome of coronary artery-left ventricle fistula after septal myectomy in hypertrophic obstructive cardiomyopathy (Bax et al). 2001;14:308-10 (Case rep.)
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Fluorocarbons
Myocardial cavitational activity during continuous infusion and bolus intravenous injections of perfluorocarbon-containing microbubbles (Porter et al). 2001;14:618-25

Fluoroscopy
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Fontan procedure; *see* Heart surgery

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Guidelines
Guidelines for cardiac sonographer education: recommendations of the American Society of Echocardiography Sonographer Training and Education Committee (Ehler et al). 2001;14:77-84 (Position paper)
Guidelines for the cardiac sonographer in the performance of contrast echocardiography: recommendations of the American Society of Echocardiography Council on Cardiac Sonography (Waggoner et al). 2001;14:417-20 (Position paper)

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Harmonic angiography; *see* Angiography

Harmonic imaging, intermittent; *see* Intermittent harmonic imaging

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Heart defects, congenital

Cleft posterior mitral valve leaflet associated with counterclockwise papillary muscle malrotation (Kent et al). 2001;14:303-4 (Case rep.)

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Heart failure, congestive

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Evaluation of septal hypertrophy and systolic function in diseases that cause left ventricular hypertrophy: a 3-dimensional echocardiography study (Frielingsdorf et al). 2001;14:370-7

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Heart neoplasms

Differential diagnosis of intracavitary tumors obstructing the right ventricular outflow tract (Gopal et al). 2001;14:937-40 (Case rep.)

Hydatid cyst of the heart as a rare cause of embolization: report of 5 cases and review of published reports (Özer et al). 2001;14:299-302 (Case rep.)

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Acute myocardial infarction caused by coronary embolism complicated by left ventricular free wall rupture (Tobar et al). 2001;14:754-6 (Case rep.)

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Abnormal implantation of permanent pacemaker lead in the left ventricle via a patent foramen ovale: clinical and echocardiographic recognition of a rare complication (Ananthasubramaniam et al). 2001;14:231-3 (Case rep.)

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Echo contrast-enhanced diagnosis of atrial septal defect (Rosenzweig et al). 2001;14:155-7 (Case rep.)

Echocardiologists' role in the development of the Amplatzer atrial septal occluder device in adults (Cooke et al). 2001;14:588-94

Intra-atrial thrombus after surgical closure of patent foramen ovale (Rodriguez et al). 2001;14:63-6 (Case rep.)

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Residual sinus venosus atrial septal defect after surgical closure of atrial septal defect (Fagan et al). 2001;14:738-41 (Case rep.)

Unique echocardiographic features associated with deployment of the Amplatzer atrial septal defect device (Salaymeh et al). 2001;14:128-37

Heart septal defects, ventricular

Use of peak Doppler gradient across ventricular septal defects leads to underestimation of right-sided pressures in patients with "sloped" Doppler signals (Schamberger et al). 2001;14:1197-202

Heart septum
Deviation of atrial septum primum in association with normal left atrioventricular valve size (Cohen et al). 2001;14:732-7
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Accuracy and reproducibility of coronary flow rate assessment by real-time contrast echocardiography: in vitro and in vivo studies (Lafitte et al). 2001;14:1010-9
Three-dimensional echocardiography with tissue harmonic imaging shows excellent reproducibility in assessment of left ventricular volumes (Kim et al). 2001;14:612-7

Respiration
Respiratory variation of mitral and pulmonary venous Doppler flow velocities in constrictive pericarditis before and after pericardiectomy (Sun et al). 2001;14:1119-26

Restrictive cardiomyopathy; *see* Cardiomyopathy, restrictive

Revascularization, myocardial; *see* Myocardial revascularization

Review articles
Review articles. 2001;14:240-8, 403-12

Rheumatoid arthritis; *see* Arthritis, rheumatoid

Right atrium; *see* Heart atrium

Right ventricular function; *see* Ventricular function, right

Ross procedure; *see* Heart surgery

Rupture
Use of contrast echocardiography in the diagnosis of subacute myocardial rupture after myocardial infarction (García-Fernández et al). 2001;14:945-7 (Case rep.)

Rural population
Reference values for echocardiographic measurements in urban and rural populations of differing ethnicity: the Strong Heart Study (Ilercil et al). 2001;14:601-11

S

Sarcoidosis
Transesophageal echocardiographic abnormalities in a case of cardiac sarcoidosis (Hourigan et al). 2001;14:399-402 (Case rep.)

Sarcoma
Differential diagnosis of intracavitary tumors obstructing the right ventricular outflow tract (Gopal et al). 2001;14:937-40 (Case rep.)

Savings; *see* Costs and cost analysis

Septal hypertrophy; *see* Heart hypertrophy

Septum, heart; *see* Heart septum

Sonography; *see* Ultrasonography

Sonomicrometry
Color-coded tissue Doppler assessment of the effects of acute ischemia on regional left ventricular function: comparison with sonomicrometry (Gorcsan et al). 2001;14:335-42

Spasm
Hyperventilation and cold-pressor stress echocardiography for noninvasive diagnosis of coronary artery spasm (Hirano et al). 2001;14:626-33

Spectrum analysis
Radiofrequency spectral analysis of attenuated ultrasound signals in experiments with echo contrast microbubbles (Asanuma et al). 2001;14:789-97

Staphylococcus aureus
An unusual case of vegetative aortitis diagnosed by transesophageal echocardiography (Bansal et al). 2001;14:257-9 (Case rep.)
Stents
Abnormal stress echocardiography results after coronary stenting (Pressman). 2001;14:948-50 (Case rep.)
Aortic dissection after angioplasty and stenting of an aortic coarctation: detection by intravascular ultrasonography but not transesophageal echocardiography (Panten et al). 2001;14:73-6 (Case rep.)
Strain rate
Quantification of the spectrum of changes in regional myocardial function during acute ischemia in closed chest pigs: an ultrasonic strain rate and strain study (Jamal et al). 2001;14:874-84
Real-time strain rate echocardiographic imaging: temporal and spatial analysis of postsystolic compression in acutely ischemic myocardium (Belohlavek et al). 2001;14:360-9
Strain rate imaging in normal and reduced diastolic function: comparison with pulsed Doppler tissue imaging of the mitral annulus (Stoylen et al). 2001;14:264-74
Streptococcus mutans
Infected left atrial myxoma (Dekkers et al). 2001;14:644-5 (Case rep.)
Streptococcus viridans
Eustachian valve endocarditis caused by *Streptococcus viridans* (Schmidt et al). 2001;14:1042-3 (Case rep.)
Stress echocardiography; *see* Echocardiography, stress
Stroke volume
Quantification of aortic regurgitation by real-time 3-dimensional echocardiography in a chronic animal model: computation of aortic regurgitant volume as the difference between left and right ventricular stroke volumes (Irvine et al). 2001;14:1112-8
Strong Heart Study
Reference values for echocardiographic measurements in urban and rural populations of differing ethnicity: the Strong Heart Study (Ilercil et al). 2001;14:601-11
Surgery, cardiac; *see* Heart surgery
Systole
Abnormal right coronary artery flow and multiple right ventricular myocardial infarctions associated with severe right ventricular systolic hypertension (Divekar et al). 2001;14:70-2 (Case rep.)
Analysis of systolic and diastolic time intervals during dobutamine-atropine stress echocardiography: diagnostic potential of the Doppler myocardial performance index (Ling et al). 2001;14:978-86
Changes in systolic and postsystolic wall thickening during acute coronary occlusion and reperfusion in closed-chest pigs: implications for the assessment of regional myocardial function (Jamal et al). 2001;14:691-7
Effect of the isolated left bundle branch block on systolic and diastolic functions of left ventricle (Özdemir et al). 2001;14:1075-9
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Left ventricular systolic and diastolic functional abnormalities in asymptomatic patients with non-insulin-dependent diabetes mellitus (Annonu et al). 2001;14:885-91
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Striking effect of left ventricular systolic performance on propagation velocity of left ventricular early diastolic filling flow (Ohte et al). 2001;14:1070-4
Tissue Doppler imaging: a useful echocardiographic method for the cardiac sonographer to assess systolic and diastolic ventricular function (Waggoner and Bierig). 2001;14:1143-52
Use of peak Doppler gradient across ventricular septal defects leads to underestimation of right-sided pressures in patients with "sloped" Doppler signals (Schamberger et al). 2001;14:1197-202
Systolic hypertension; *see* Hypertension

T

Tachycardia, ventricular
Use of high-frame rate imaging and Doppler tissue echocardiography in the diagnosis of fetal ventricular tachycardia (Rein et al). 2001;14:149-51 (Case rep.)
Thallium
Combined dipyridamole and dobutamine echocardiography in myocardial hibernation: comparison with thallium uptake in patients after percutaneous transluminal coronary revascularization under circulatory support (Borges et al). 2001;14:1057-64
Thoracic aorta; *see* Aorta, thoracic
Thorax
Quantification of the spectrum of changes in regional myocardial function during acute ischemia in closed chest pigs: an ultrasonic strain rate and strain study (Jamal et al). 2001;14:874-84
Three-dimensional echocardiography; *see* Echocardiography, three-dimensional
Thromboembolism
Role of echocardiography in the diagnosis and treatment of acute pulmonary thromboembolism (Leibowitz). 2001;14:921-6
Thromboembolus from a ligated left atrial appendage (Rosenzweig et al). 2001;14:396-8 (Case rep.)
Thrombolytic therapy
Thrombolytic therapy of a left-sided prosthetic valve thrombosis without hemodynamic obstruction: a case report (Gulati et al). 2001;14:1230-4 (Case rep.)
Thrombosis
Four-year prospective study of pulmonary venous thrombosis after lung transplantation (Schulman et al). 2001;14:806-12
Intra-atrial thrombus after surgical closure of patent foramen ovale (Rodriguez et al). 2001;14:63-6 (Case rep.)
Right atrial spontaneous echo contrast and thrombi in atrial fibrillation: a transesophageal echocardiography study (Bashir et al). 2001;14:122-7
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Time and motion studies
Accuracy and cost-and time-effectiveness of digital clip versus videotape interpretation of echocardiograms in patients with valvular disease (Haluska et al). 2001;14:292-8
Tissue Doppler imaging; *see* Doppler tissue imaging

Tissue harmonic imaging; *see* Intermittent harmonic imaging
Trabeculation; *see* Connective tissue
Transesophageal echocardiography; *see* Echocardiography, transesophageal
Transgenes
The left ventricular stress-velocity relation in transgenic mice expressing a dominant negative CREB transgene in the heart (Fentzke et al). 2001;14:209-18
Transplantation, homologous
Homograft pulmonic stenosis after the Ross procedure: evaluation of the stenotic valve area by proximal isovelocity surface area (PISA) (Tunick and Kronzon). 2001;14:67-9 (Case rep.)
Transposition of great vessels
Disturbed atrioventricular electromechanical function long after Mustard operation for transposition of great arteries: a potential contributing factor to atrial flutter (Li et al). 2001;14:1088-93
Transthoracic echocardiography; *see* Echocardiography, transthoracic
Treadmill test; *see* Exercise test
Tricuspid valve
Unusual echocardiographic views of bicuspid and tricuspid pulmonic valves (McAleer et al). 2001;14:1036-8 (Case rep.)
Tumors, heart; *see* Heart neoplasms
Turner's syndrome
Utility of transesophageal echocardiography for the characterization of cardiovascular anomalies associated with Turner's syndrome (Gopal et al). 2001;14:60-2 (Case rep.)
Two-dimensional echocardiography; *see* Echocardiography, two-dimensional

U

Ultraharmonic imaging; *see* Intermittent harmonic imaging
Ultrasonography
Dipyridamole stress ultrasonic myocardial tissue characterization in patients with Kawasaki disease (Yu et al). 2001;14:682-90
Guidelines for cardiac sonographer education: recommendations of the American Society of Echocardiography Sonographer Training and Education Committee (Ehler et al). 2001;14:77-84 (Position paper)
Guidelines for the cardiac sonographer in the performance of contrast echocardiography: recommendations of the American Society of Echocardiography Council on Cardiac Sonography (Waggoner et al). 2001;14:417-20 (Position paper)
Intermittent harmonic imaging and videodensitometry significantly enhance ability of intravenous air-filled ultrasonographic contrast agent to produce ventricular and myocardial opacification (Sieswerda et al). 2001;14:20-8
Licensure of the cardiac sonographer: an overview of issues and activities (Rosenbloom et al). 2001;14:1212-9
Quantification of extracranial carotid artery stenosis by ultrafast three-dimensional ultrasound (Kozàkovà et al). 2001;14:1203-11
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Tissue Doppler imaging: a useful echocardiographic method for the cardiac sonographer to assess systolic and diastolic ventricular function (Waggoner and Bierig). 2001;14:1143-52
Ultrasonography, intravascular
Aortic dissection after angioplasty and stenting of an aortic coarctation: detection by intravascular ultrasonography but not transesophageal echocardiography (Panten et al). 2001;14:73-6 (Case rep.)
Urban population
Reference values for echocardiographic measurements in urban and rural populations of differing ethnicity: the Strong Heart Study (Ilercil et al). 2001;14:601-11

V

Valvular diseases; *see* Heart valve diseases
Vegetative aortitis; *see* Aortitis
Velocity, blood flow; *see* Blood flow velocity
Vena cava, inferior
Eustachian valve cyst (Nkomo and Miller). 2001;14:1224-6 (Case rep.)
Eustachian valve endocarditis: a case series and analysis of the literature (Sawhney et al). 2001;14:1139-42 (Case rep.)
Residual sinus venosus atrial septal defect after surgical closure of atrial septal defect (Fagan et al). 2001;14:738-41 (Case rep.)
Ventricle; *see* Heart ventricle
Ventricular function
Atrial and ventricular electromechanical function in 1-ventricle hearts: influence of atrial flutter and Fontan procedure (Li et al). 2001;14:186-93
Ventricular function, left
Anatomic validation of a novel method for left ventricular volume and mass measurements with use of real-time 3-dimensional echocardiography (Schmidt et al). 2001;14:1-10
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Assessment of left ventricular function by real-time 3-dimensional echocardiography compared with conventional noninvasive methods (Takuma et al). 2001;14:275-84
An assessment of tissue harmonic versus fundamental imaging modes for echocardiographic measurements (Graham et al). 2001;14:1191-6
Chronic mitral regurgitation and Doppler estimation of left ventricular filling pressures in patients with heart failure (Temporelli et al). 2001;14:1094-9
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Echocardiographic evaluation of left and right ventricular diastolic function in patients with chronic obstructive pulmonary disease (Özer et al). 2001;14:557-61
Effect of the isolated left bundle branch block on systolic and diastolic functions of left ventricle (Özdemir et al). 2001;14:1075-9
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Left ventricular systolic and diastolic functional abnormalities in asymptomatic patients with non-insulin-dependent diabetes mellitus (Annonu et al). 2001;14:885-91

Measurement of left ventricular volumes by 3-dimensional echocardiography with tissue harmonic imaging: a comparison with magnetic resonance imaging (Kim et al). 2001;14:169-79

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Mitral regurgitation and left ventricular diastolic dysfunction similarly affect mitral and pulmonary vein flow Doppler parameters: the advantage of end-diastolic markers (Rossi et al). 2001;14:562-8

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New insights into regional systolic and diastolic left ventricular function with tissue Doppler echocardiography: from qualitative analysis to a quantitative approach (Trambaiolo et al). 2001;14:85-96

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New method of on-line quantification of regional wall motion with automated segmental motion analysis (Fujino et al). 2001;14:892-901

Noninvasive assessment of left ventricular isovolumic contraction and relaxation with continuous wave Doppler aortic regurgitant velocity signals: an in vivo validation study (Mori et al). 2001;14:715-22

Real-time 3-dimensional echocardiographic evaluation of left ventricular volume: correlation with magnetic resonance imaging—a validation study (Lee et al). 2001;14:1001-9

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Serial Doppler echocardiographic assessment of left and right ventricular performance after a first myocardial infarction (Moller et al). 2001;14:249-55

Stratification of single-vessel coronary stenosis by ischemic threshold at the onset of wall motion abnormality during continuous monitoring of left ventricular function by semisupine exercise echocardiography (Garot et al). 2001;14:798-805

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Unusual form of cardiac rupture: sealed subacute left ventricular free wall rupture, evolving to intramyocardial dissecting hematoma and to pseudoaneurysm formation—a case report and review of the literature (Harpaz et al). 2001;14:219-27 (Case rep.)

The validation of volumetric real-time 3-dimensional echocardiography for the determination of left ventricular function (Mondelli et al). 2001;14:994-1000

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Abnormal right coronary artery flow and multiple right ventricular myocardial infarctions associated with severe right ventricular systolic hypertension (Divekar et al). 2001;14:70-2 (Case rep.)

Association between myocardial right ventricular relaxation time and pulmonary arterial pressure in chronic obstructive lung disease: analysis by pulsed Doppler tissue imaging (Caso et al). 2001;14:970-7

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Ventricular outflow obstruction

Beta-blocker therapy improved symptoms and exercise capacity in a patient with dynamic intra-right ventricular obstruction: an atypical form of double-chambered right ventricle (Arai et al). 2001;14:650-3 (Case rep.)

Ventricular septal defects; *see* Heart septal defects, ventricular

Ventricular tachycardia; *see* Tachycardia, ventricular

Video

Accuracy and cost-and time-effectiveness of digital clip versus videotape interpretation of echocardiograms in patients with valvular disease (Haluska et al). 2001;14:292-8

Comparison of MPEG-1 digital videotape with digitized sVHS videotape for quantitative echocardiographic measurements (Garcia et al). 2001;14:114-21

Volume, cardiac; *see* Cardiac volume

W

Wall motion

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